

AMENDMENTS TO THE SPECIFICATION

Please substitute AMENDED pages 1-3 for page 1-3 in the English translation of PCT/EP2003/010144.

On AMENDED page 1, after the title, please insert the following new section headings:

-- BACKGROUND OF THE INVENTION --

--(1) Field of the Invention--

On AMENDED page 1, after the first complete paragraph, please insert the following new section heading:

--(2) Description of the Prior Art--

On AMENDED page 2, before the paragraph beginning "This invention teaches that the wall....", please insert the following new section heading:

-- SUMMARY OF THE INVENTION --

On page 8, before the paragraph beginning with "Figure 1...", please insert the following new section heading:

-- BRIEF DESCRIPTION OF THE DRAWINGS --

On page 9, before the paragraph beginning with "A device...", please insert the following new section heading:

-- DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS --

On page 9, please replace the paragraph beginning with "The luminescent" with the following rewritten paragraph:

-- The luminescent substance 2 is located in the interior cavity 6 of a measurement chamber 7, the walls of which are essentially impermeable for the luminescent radiation 5. The measurement chamber 7 has a wall area that faces the radiation source 3 and is permeable to the excitation radiation 3 ~~3-sie-4?~~ 4 and is formed by a disc-shaped or plate-shaped silicon semiconductor substrate 8. The semiconductor substrate 8 can be economically manufactured from a silicon wafer during the fabrication of the measurement chamber 7. --